



## SEQUENCE LISTING

<110> University of North Texas Health Science Center at Fort Worth  
Mathews, Porunellor A.  
Boles, Kent

<120> Immuno activation of CS1 receptor in natural killer cells to inhibit tumor cell growth

<130> 120746.00004

<140> 10/021,741  
<141> 2001-12-12

<160> 5

<170> PatentIn version 3.3

<210> 1  
<211> 1083  
<212> DNA  
<213> Homo Sapiens

<300>  
<301> Boles, K.S. and Mathew, P.A.  
<302> Molecular cloning of CS1, a novel human natural killer cell  
<303> Immunogenetics  
<304> 52  
<305> (3-4)  
<306> 302-307  
<307> 2001  
<308> AF291815  
<309> 2000-08-01  
<313> (1)..(1083)

<300>  
<308> AF291815  
<309> 2000-08-01  
<313> (1)..(1083)

<400> 1  
cagagagcaa tatggctgg tccccaaacat gcctcacccct catctatatc ctttggcagc 60  
tcacagggtc agcagcctct ggacccgtga aagagctggt cggttccgtt ggtggggccg 120  
tgactttccc cctgaagtcc aaagtaaagc aagttgactc tattgtctgg accttcaaca 180  
caacccctct tgtcaccata cagccagaag ggggcactat catagtgacc caaaatcgta 240  
atagggagag agtagacttc ccagatggag gctactccct gaagtcagc aaactgaaga 300  
agaatgactc agggatctac tatgtgggga tatacagctc atcactccag cagccctcca 360  
cccaggagta cgtgctgcat gtctacgagc acctgtcaaa gcctaaagtc accatgggtc 420  
tgcagagcaa taagaatggc acctgtgtga ccaatctgac atgctgcatg gaacatgggg 480  
aagaggatgt gatttataacc tggaaaggccc tggggcaagc agccaatgag tcccataatg 540  
ggtccatcct ccccatctcc tggagatggg gagaaaagtga tatgaccttc atctgcgttg 600  
ccaggaaccc tgtcagcaga aacttctcaa gccccatcct tgccaggaag ctctgtgaag 660  
gtgctgctga tgacccagat tcctccatgg tcctcctgtg tctcctgttg gtgcccctcc 720  
tgctcagtct ctttgtactg gggctatttc tttgggttct gaagagagag agacaagaag 780

agtacattga agagaagaag agagtggaca tttgtcgga aactcctaac atatgcccc 840  
attctggaga gaacacagag tacgacacaa tccctcacac taatagaaca atcctaaagg 900  
aagatccagc aaatacggtt tactccactg tggaaatacc gaaaaagatg gaaaatccc 960  
actcaactgct cacgatgcca gacacaccaa ggctatttgc ctatgagaat gttatctaga 1020  
cagcagtgca ctgcccctaa gtctctgctc aaaaaaaaaa caattctcg 1080  
aca 1083

<210> 2  
<211> 335  
<212> PRT  
<213> Homo Sapens

<300>  
<301> Boles, K.S. and Mathew, P.A.  
<302> Molecular cloning of CS1, a novel human natural killer cell  
<303> Immunogenetics  
<304> 52  
<305> (3-4)  
<306> 302-307  
<307> 2001  
<308> AAK11549  
<309> 2001-08-01  
<313> (1)..(335)

<300>  
<308> AAK11549  
<309> 2001-08-01  
<313> (1)..(335)

<400> 2

Met Ala Gly Ser Pro Thr Cys Leu Thr Leu Ile Tyr Ile Leu Trp Gln  
1 5 10 15

Leu Thr Gly Ser Ala Ala Ser Gly Pro Val Lys Glu Leu Val Gly Ser  
20 25 30

Val Gly Gly Ala Val Thr Phe Pro Leu Lys Ser Lys Val Lys Gln Val  
35 40 45

Asp Ser Ile Val Trp Thr Phe Asn Thr Thr Pro Leu Val Thr Ile Gln  
50 55 60

Pro Glu Gly Gly Thr Ile Ile Val Thr Gln Asn Arg Asn Arg Glu Arg  
65 70 75 80

Val Asp Phe Pro Asp Gly Gly Tyr Ser Leu Lys Leu Ser Lys Leu Lys  
85 90 95

Lys Asn Asp Ser Gly Ile Tyr Tyr Val Gly Ile Tyr Ser Ser Ser Leu  
100 105 110

Gln Gln Pro Ser Thr Gln Glu Tyr Val Leu His Val Tyr Glu His Leu  
115 120 125

Ser Lys Pro Lys Val Thr Met Gly Leu Gln Ser Asn Lys Asn Gly Thr  
130 135 140

Cys Val Thr Asn Leu Thr Cys Cys Met Glu His Gly Glu Glu Asp Val  
145 150 155 160

Ile Tyr Thr Trp Lys Ala Leu Gly Gln Ala Ala Asn Glu Ser His Asn  
165 170 175

Gly Ser Ile Leu Pro Ile Ser Trp Arg Trp Gly Glu Ser Asp Met Thr  
180 185 190

Phe Ile Cys Val Ala Arg Asn Pro Val Ser Arg Asn Phe Ser Ser Pro  
195 200 205

Ile Leu Ala Arg Lys Leu Cys Glu Gly Ala Ala Asp Asp Pro Asp Ser  
210 215 220

Ser Met Val Leu Leu Cys Leu Leu Leu Val Pro Leu Leu Leu Ser Leu  
225 230 235 240

Phe Val Leu Gly Leu Phe Leu Trp Phe Leu Lys Arg Glu Arg Gln Glu  
245 250 255

Glu Tyr Ile Glu Glu Lys Arg Val Asp Ile Cys Arg Glu Thr Pro  
260 265 270

Asn Ile Cys Pro His Ser Gly Glu Asn Thr Glu Tyr Asp Thr Ile Pro  
275 280 285

His Thr Asn Arg Thr Ile Leu Lys Glu Asp Pro Ala Asn Thr Val Tyr  
290 295 300

Ser Thr Val Glu Ile Pro Lys Lys Met Glu Asn Pro His Ser Leu Leu  
305 310 315 320

Thr Met Pro Asp Thr Pro Arg Leu Phe Ala Tyr Glu Asn Val Ile  
325 330 335

<210> 3  
<211> 12  
<212> PRT  
<213> artificial sequence

<220>  
<223> Peptide fragment of mAb for CS1 receptor.

<400> 3

Cys Gln Asn Arg Asn Arg Glu Arg Val Asp Phe Pro  
1 5 10

<210> 4

<211> 11  
<212> PRT  
<213> artificial sequence  
  
<220>  
<223> Peptide fragment of mAb for CS1 receptor.  
  
<400> 4

Cys Met Glu His Gly Glu Glu Asp Val Ile Tyr  
1 5 10

<210> 5  
<211> 16  
<212> PRT  
<213> artificial sequence  
  
<220>  
<223> Peptide fragment of mAb for CS1 receptor.  
  
<400> 5

Cys Gln Glu Glu Tyr Glu Glu Lys Lys Arg Val Asp Ile Cys Arg Glu  
1 5 10 15